US ERA ARCHIVE DOCUMENT

LON C HILL REDEVELOPMENT PROJECT LON C. HILL, LP

GT SU/SD Emission Rates per Unit Summary Table (1)

	Max. Hourly	Annual			
Air Pollutant	Emission Rate	Emission Rate			
	(lb/hr) ⁽²⁾	(tpy) ⁽³⁾			
NOx	206.80	29.60			
CO	3,137.20	377.59			
VOC	359.70	46.24			
NH ₃	34.00	-			

Notes

- (1) Proposed emission rates per gas turbine startup/shutdown.
- (2) Proposed maximum hourly emissions represent the maximum 1-hr emission rates due to any startup or shutdown event.
 - Data as provided by vendor
 - Hourly SO₂, PM₁₀/PM₂ 5 and H₂SO₄ emission rates are expected to be within the routine operations limits, therefore no SU/SD hourly emission rates are proposed for these pollutants.
 - Hourly NH₃ emissions rate could exceed routine operation levels during certain startup scenarios. Based on operational data from a similar facility, startup emission rates may be as high as 34 lb/hr. Because the frequency of events is limited, annual emission rates are not impacted.
- (3) Annual emissions represent the sum of total proposed annual startups and shutdowns.
 - Annual SO₂, PM₁₀/PM_{2.5}, H₂SO₄, and NH₃ emission rates will not be higher than those occurring during routine operations, therefore no SU/SD annual emission rates are proposed for these pollutants.

Startup/Shutdown Events Characteristics

	Cold Startup			Warm Startup		Hot Startup			Shutdown							
	Max. Emission Rate (lb/hr) (1)	Emission Factor (lb/event) (1)	Event Duration (min) ⁽²⁾	No. Events per Year ⁽³⁾	Data (lb/br)	Emission Factor (lb/event) (1)	Event Duration (min) ⁽²⁾	No. Events per Year ⁽³⁾	Max. Emission Rate (lb/hr)	Emission Factor (lb/event) (1)	Event Duration (min) ⁽²⁾	No. Events per Year ⁽³⁾	Max. Emission Rate (lb/hr)	Emission Factor (lb/event) (1)	Event Duration (min) ⁽²⁾	No. Events per Year ⁽³⁾
NOx	207	351	241	10	206	240	136	50	158	171	93	200	37	37	_	260
СО	3,137	4,161			2,961	3,021			2,168	2,198			473	473		
VOC	360	482			351	354			260	262			68	68		

Notes:

- (1) Maximum emission rate (lb/hr) and emission factors (lb/events) per vendor data times a 10% safety factor.
- (2) Event duration per vendor data.
- (3) No. of events per year based on vendor data.